



6-17-05

PATENT  
Application S/N 10/607,035  
Docket No. 202.2D4  
Date: June 15, 2005

7/15/05  
JF

MAIL STOP AMENDMENT  
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## TRANSMITTAL

Sir:

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For: **PHARMACEUTICAL COMPOSITIONS AND TREATMENT METHODS - 4**

Enclosed are:

- (X) Information disclosure statement listing 50 references.
- (X) Copies of 50 references cited in the IDS.
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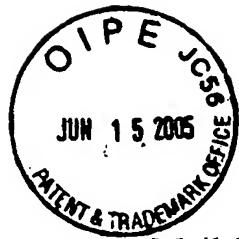
The Commissioner is hereby authorized to charge the \$180.00 fee under 37 C.F.R. § 1.17(p) and any other fees which may be required, now or in the future, or credit any overpayment to **Deposit Account No. 501536**. Small entity status has previously been claimed for this application.

Please use **Customer No. 26,551** for the correspondence address.

Date: June 15, 2005

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**CERTIFICATE OF MAILING BY EXPRESS MAIL**

**Attorney Docket No. : 202.2D4**  
**Applicant(s) : Clarence N. Ahlem, et al.**  
**Application Serial No. : 10/607,035**  
**For : Pharmaceutical Compositions and Treatment Methods - 4**  
**Attorney : Daryl D. Muenchau, Registration No. 36,616**  
**Express mail label No. : EV 205130966 US**  
**Date of Deposit : June 15, 2005**

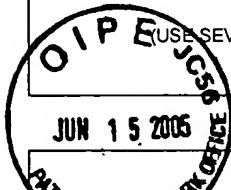
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are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. § 1.10 on June 15, 2005 and are addressed to Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Brenda Mannon

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 202.2D4	APPLICATION NO. 10/607,035
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT Clarence N. Ahlem, et al	
O I P E (USE SEVERAL SHEETS IF NECESSARY)		FILING DATE June 25, 2003	GROUP 1616



## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
	3,983,233	9-28-76	Brattsand et al.			
	4,383,992	5-17-83	Lipari			
	4,427,649	1-24-84	Dingle et al.			
	4,710,495	12-1-87	Bodor			
	4,898,694	02-06-90	Schwartz et al.			
	5,001,119	03-19-91	Schwartz et al.			
	5,028,631	07-02-91	Schwartz et al.			
	5,077,284	12-31-91	Loria et al			
	5,206,008	04-27-93	Loria			
	5,223,493	6-29-93	Boltralik			
	5,277,907	06-11-94	Loria			
	5,296,481	03-22-94	Partridge et al			
	5,424,463	06-13-95	Lardy et al.			
	5,461,042	10-24-95	Loria			
	5,506,223	04-09-96	Lardy et al.			
	5,585,371	12-17-96	Lardy			
	5,641,766	06-24-97	Lardy			
	5,686,438	11-11-97	Daynes et al			
	5,714,481	20-03-98	Schwartz et al.			
	5,811,418	09-22-98	Daynes et al			
	5,837,269	11-17-98	Daynes et al.			
	5,859,000	01-12-99	Dowell et al			
	5,912,240	06-15-99	Loria			
	6,187,767 B1	02-13-01	Araneo et al.			5-14-99
	6,187,767 B1	3-6-01	Garvey et al.			9-18-98
	6,667,299 B1	12-23-03	Ahlem et al			3-23-00
	6,794,374 B1	09-21-04	Weeks			11-27-00

EXAMINER	DATE CONSIDERED
*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.	

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U.S. PATENT APPLICATION PUBLICATIONS						
EXAMINER INITIAL	DOCUMENT PUBLICATION NUMBER	NAME AND PORTIONS OF DOCUMENT		CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
.	US 2005/0075321 A1	Ahlem et al., first page and pages 102-107 (claims)				
.	US 2004/0138187 A1	Ahlem et al., entire document				
.	US 2004/0083231 A1	Ahlem et al., entire document				
.	US 2004/0043973 A1	Ahlem et al., first page and pages 99-101 (claims)				
.	US 2003/0060425 A1	Ahlem et al., entire document				

FOREIGN PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
						YES NO
.	EP 0 429 187 B1	05-01-94	Europe			
.	EP 0 289 327 A1	11-02-88	Europe			
.	EP 0 133 995 A2	08-08-84	Europe			
.	DE 38 12 595 C2	10-27-88	Germany			X
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EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, ETC.)
	Araghi-Niknam et al., Cytokine Dysregulation and Increased Oxidation IS Prevented by Dehydroepiandrosterone in Mice Infected with Murine Leukemia Retrovirus, <i>Proc. Soc. Exp. Biol. Med.</i> 216(3):386-391 1997
	Araghi-Niknam et al., Modulation of immune dysfunction during murine leukaemia retrovirus infection of old mice by dehydroepiandrosterone sulphate (DHEAS), <i>Immunology</i> 90:344-349 1997
	Bebo et al., Androgens alter the cytokine profile and reduce encephalitogenicity of myelin-reactive T cells, <i>J. Immunol.</i> 162:35-40 1999
	Henderson et al., Dehydroepiandrosterone and 16.alpha.-bromoepiandrosterone: Inhibitors of Epstein-Barr virus induced transformation of human lymphocytes, <i>Carcinogenesis</i> , 2(7):683-686 1981
	Hernandez-Pando et al., The effects of androstanediol and dehydroepiandrosterone on the course and cytokine profile of tuberculosis in BALB/c mice, <i>Immunology</i> 95(2):234-241 1998
	Inserra et al., Modulation of cytokine production by dehydroepiandrosterone (DHEA) plus melatonin (MLT) supplementation of old mice, <i>Proc. Soc. Exp. Biol. Med.</i> 218:76-82 1998
	Kang et al., Dehydroepiandrosterone and $\beta$ -endorphin enhance IL-12 gene expression, <i>Chem. Abstracts</i> 126(9):99 abstract No. 113406a 1997
	Kang et al., Dehydroepiandrosterone and $\beta$ -endorphin enhance IL-12 gene expression, <i>Taehan Misaengmulhak Hoechi (J. Korean Soc. Microbiology)</i> 31(4):399-404 1996 (translation from Korean)
	Manz et al., Methyl 17 $\beta$ -Carboxyester Derivatives of Natural and Synthetic Glucocorticoids: Correlation Between Receptor Binding and Inhibition of in vitro Phytohaemagglutinin-Induced Lymphocyte Blastogenesis, <i>J. Clin. Chem. Clin. Biochem.</i> 21(2):69-75 1983
	Sigg et al., Methyl 3 $\alpha$ -acetoxyetien-(8:9 oder 8:14)-ate, Preliminary Communication, <i>Helvetica Chimica Acta</i> , 39(6):1507-1525 1956 (translation from German)
	Weisz et al., Selective reactions of some steroids with diethyl dicarbonate, <i>Archiv Pharmazie</i> 319:952-953 1986
	Xia, et al., Anti-AIDS agents. Part 36: 17-Carboxylated steroids as potential anti-HIV agents, <i>BIOORG Med. Chem</i> 7(9):1907-1911 1999
	Yang et al., Inhibition of HIV-1 latency reactivation by dehydroepiandrosterone (DHEA) and an analog of DHEA, <i>Aids Research and Human Retroviruses</i> 9(8):747-754 1993
	Zhang et al., Prevention of immune dysfunction and vitamin E loss by dehydroepiandrosterone and melatonin supplementation during murine retrovirus infection, <i>Immunology</i> 96:291-297 1999